

Biodiode Fabrication on Nanogap Consisting of Recombinant Azurin

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Biomolecule which has self-assembling ability and specific functionality can be applied for the bioelectronic devices. The main fundamental of biodevices was inspired by the naturally occurring electron transfer phenomena in biological system. In this study, the nanoscale biodiode consisting of recombinant azurin on Au nanogap was developed. And the rectifying characteristic of proposed nanoscale biodiode was checked with semiconductor parameter analyzer. In conclusion, the proposed biodiode with rectifying characteristic can be used for the nanobioelectronic devices.

Acknowledgements : This research was supported by The Nano/Bio Science&Technology Program(M10536090001-05N3609-00110) of the Ministry of Education, Science and Technology(MEST), by the National Research Foundation of Korea (NRF) grant funded by the Korea government (MEST) (2012-0000163), by the Ministry of Knowledge Economy (MKE) and Korea Institute for Advancement in Technology (KIAT) through the Workforce Development Program in Strategic Technology.